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| Form PTO-1449<br>(Substitute)  |    | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE  |                  | Attorney Docket Number<br>LAZE-01000US0 SRM/MLR |                               | Serial/Patent Number<br>09/465,592 |                      |
| INFORMATION DISCLOSURE STATEMENT<br>BY APPLICANT<br>(Use several sheets if necessary)                          |    |   |                  | Applicant/Patent Owner<br>Culver; Rust          |                               |                                    |                      |
|  |    |   |                  | Filing/Issue Date<br>12/17/99                   |                               | Group Art Unit<br>2653             |                      |
| U.S. PATENTS   |    |   |                  |   |                               |                                    |                      |
| Examiner Initial   |    | Patent Number   | Issue Date       | First Named Inventor                            | Class                         | Subclass                           | Filing Date          |
| KE   | 1. | 5,822,285   | 10/13/98         | Rugar et al.                                    | 369                           | 44.26                              | 03/31/97             |
| KE   | 2. | 5,835,477   | 11/10/98         | Binnig et al.                                   | 369                           | 126                                | 07/10/96             |
| KE   | 3. | 5,856,967   | 01/05/99         | Mamin et al.                                    | 369                           | 126                                | 08/27/97             |
| U.S. PATENT PUBLICATIONS   |    |   |                  |   |                               |                                    |                      |
| Examiner Initial   |    | Patent Application Publication Number   | Publication Date | Applicant                                       |                               |                                    |                      |
|  |    |   |                  | RECEIVED  |                               |                                    |                      |
| APR 10 2003  |    |   |                  |   |                               |                                    |                      |
| PENDING U.S. PATENT APPLICATIONS   |    |   |                  |   |                               |                                    |                      |
| Examiner Initial   |    | Application Number  | Filing Date      | First Named Inventor                            | Technology Center 2600        |                                    |                      |
|  |    |   |                  |   | Petition to Expunge? Yes   No |                                    |                      |
|  |    |   |                  |   |                               |                                    |                      |
| FOREIGN PATENT DOCUMENTS   |    |   |                  |   |                               |                                    |                      |
| Examiner Initial   |    | Document Number   | Publication Date | Country   | Class                         | Subclass                           | Translation Yes   No |
|  |    |   |                  |   |                               |                                    |                      |
| OTHER DOCUMENTS (Include author (if any), title, publisher and place of publication, date and pertinent pages) |    |   |                  |   |                               |                                    |                      |
| KE   | 4. | Barrett, R.C. and Quate, C.F., "Large-scale charge storage by scanning capacitance microscopy," Ultramicroscopy 42-44 (1992) pp. 262-267.                   |                  |   |                               |                                    |                      |
| KE   | 5. | Gardner, E., "AFM Fabricates a Tiny Transistor," Science, Vol. 266, 28 October 1994, p. 543.  |                  |   |                               |                                    |                      |
| KE   | 6. | Hagan, H.P., et al., "Temporal behaviour of nanofeatures on Au," Ultramicroscopy, 42-44 (1992), pp. 587-593.  |                  |   |                               |                                    |                      |
| KE   | 7. | Majumdar, A., et al., "Nanometer-scale lithography using the atomic force microscope," Appl. Phys. Lett., Vol. 61, No. 19, 9 November 1992, pp. 2293-2295.  |                  |   |                               |                                    |                      |
| KE   | 8. | Mamin, H.J. and Ruger, D., "Thermomechanical writing with an atomic force microscope tip," App. Phys. Lett., Vol. 61, No. 8, 24 August 1992, pp. 1003-1005. |                  |   |                               |                                    |                      |

## OTHER DOCUMENTS (Include author (if any), title, publisher and place of publication, date and pertinent pages)

|     |   |
|-----|---|
| 9.  | Mamin, H.J., et al., "High Density data storage using proximal probe techniques," The IBM Journal of Research and Development, Vol. 39, No. 6, November 1995, pp. 681-699.  |
| 10. | Manalis, S., et al., "Submicron studies of recording media using thin-film magnetic scanning probes," Applied Physics Letters, Vol. 66, No. 19, 8 May 1995, pp. 2585-2587.  |
| 11. | Terris, B.D., et al., "Atomic force microscope-base data storage: track servo and wear study," Applied Physics A Vol. 66, pp. S809-S813 (1998), (IBM Almaden Research Center, presented STM 97).                        |
| 12. | Uesugi, K. and Yao, T., "Nanometer-scale fabrication on graphite surfaces by scanning tunneling microscopy," Ultramicroscopy, 42-44 (1992), pp. 1443-1445.  |
| 13. | Vettiger, P., et al., "The 'Millipede' — More than one thousand tips for future AFM data storage," The IBM Journal of Research and Development, Vol. 44, No. 3, May 2000, pp. 323-340.                                  |
| 14. | Vettiger, P. and Binnig, G., "The Nanodrive Project, Inventing a Nanotechnology Device for Mass Production and Consumer Use is Trickier Than it Sounds," Scientific American, Vol. 288, No. 1, January 2003, pp. 46-53. |

Examiner

Kim Chun

Date Considered

5/15/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*1 = Copy not submitted because it was submitted in prior application SN / \_\_\_\_\_, filed \_\_\_\_\_, 20\_\_\_\_, relied on under 35 USC §120.

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